

Name: _____

Date: _____

PC: More Hyperbolas and Volcanoes

Sketch each function using a minimum of 2 points and including any and all asymptotes. For each graph, state the domain, range, intercepts and equations of any asymptotes.

1. $y = -\frac{1}{x}$

9. $y = \frac{4}{x}$

2. $y = \frac{1}{x} + 5$

10. $y = \frac{1}{4x^2}$

3. $y = -\frac{1}{x} + 2$

11. $xy = 3$

4. $y = \frac{1}{x+4} - 2$

12. $xy = -2$

5. $y = -\frac{1}{x-2} + 1$

13. $xy - y = 1$

6. $y = \frac{1}{(x+1)^2} - 2$

14. $xy - 2x = 1$

7. $y = \frac{1}{(x-2)^2} + 3$

8. $y = -\frac{1}{(x-1)^2} - 2$